Environmental Management Performance Report

August 2001

Demolition and Size Reduction of Debris at the 116-N-3 Bypass Structure

Well Decommissioning

Vessel L-16 Removal at 233-S

200-ZP-2 Process Chiller Adjustment

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end June.
All other data as of July 27 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0107059a.3

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
AUGUST 2001

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
AUGUST 2001

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data are current as of June 30. Accomplishments, Issues and Integration items are current as of July 27, unless otherwise noted.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones, and fiscal year 2001 (FY01) Environmental Management (EM) corporate performance measures. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date Environmental Restoration Contractor (ERC) Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal (RAWD) Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

Section A: Executive Summary

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

During June, Environmental Restoration Disposal Facility (ERDF) disposal operations began disposing contaminated waste into Cell #3. 414,092 metric tons (456,461 tons) of waste have been disposed in ERDF during fiscal year 2001 (FY01), which is about 8% ahead of the plan. To date, a total of 2,720,854 metric tons (2,999,244 tons) of material have been disposed in ERDF.

Pipeline removal continued on the concrete and steel pipelines in the 100 B/C Area. Excavation commenced for demolition of the river outfall structures. Concrete structure removal was completed at two of the three outfalls.

100 D Area subcontract closeout activities were completed on June 15. Excavation and backfill were completed in late February in the 100 D Area.

Soil sample results were received that had been taken in the 100 F Area southern ash pit. Results indicated that no further remediation is required. During FY00, the Small Diameter Geophysical Logging System technology was deployed to perform in situ characterization at the 126-F-1 ash pit remediation site. Use of this technology deployment will eliminate approximately nine months of excavation activity at the 100 F Operable Unit. 100 F Area excavation work is currently planned for completion in early FY03.

Backfill operations progressed at the 116-H-7 Retention Basin. This is the last and largest liquid waste disposal site at 100 H Area.

In the 100 N Area, excavation and loadout activities continued for the 116-N-3 Crib plumes and the 116-N-3 bypass structure. Demolition of the bypass structure is complete, except for the one section underneath the roadway.

Green

The 618-4 Burial Ground (300 Area) barrel staging evaluation continued. Potential staging locations in the 200 and 300 Areas were identified and evaluated.

Data validation packages were received for the J.A. Jones and 600-23 waste sites on June 27. Backfill activities are planned for initiation in August, and reseeding will be completed later this fall.

A readiness assessment was conducted June 4-7 for the F Reactor Fuel Storage Basin (FSB) Phase II cleanout (bottom 1-meter [3-foot] fill/sludge removal and sample collection). Work packages were also completed for the FSB Phase II demolition. The Brokk™ excavator was mobilized in the FSB, and lower fill sampling was completed at the end of June.

Walkdowns were completed at F Reactor in support of the safe storage enclosure (SSE) design work.

Hazardous material and pipe/equipment removal activities proceeded at D and H Reactors.

During June, 233-S Plutonium Concentration Facility work activities included the completion of nondestructive assay for 67 waste packages. Knee braces were also installed in support of the upcoming L-3/L-12 vessel removal operations. Through June, five of the eight vessels planned for FY01 have been removed, on or ahead of schedule.

NOTABLE ACCOMPLISHMENTS continued:

Environmental Restoration Contractor (ERC) Safety and Health personnel participated in the 2001 Hanford Site emergency preparedness field exercise that was conducted in June.

At the 2001 U.S. Department of Energy (DOE) Pollution Prevention Conference in Albuquerque, New Mexico held on June 18-22, Bechtel Hanford, Inc. (BHI) received a national pollution prevention award for its work and implementation of the Small Diameter Geophysical Logging System. BHI also received a runner-up award for using value methodology in assessing waste minimization opportunities.

The FY02 Detailed Work Plan (DWP) kickoff meeting was held on June 27. Representatives from ERC, DOE Richland Operations Office (RL), regulators, and stakeholders were in attendance.

CENTRAL PLATEAU:

The Groundwater/Vadose Zone (GW/VZ) Integration Project initiated biological fate and transport experiments. These experiments will help determine impacts of technetium-99 on aquatic species.

A drilling contract was awarded for the calendar year 2001 (CY01) *Resource Conservation and Recovery Act* (RCRA) well installations. Eleven wells are planned for installation by December 31.

During June, well installation operations were completed for Phase II of the In Situ Redox Manipulation (ISRM) project. Barrier well injections are ongoing.

The final contract was awarded for FY01 well decommissioning operations. 90 wells are planned for decommissioning this fiscal year with 70 wells completed through June. Decommissioning of the remaining 20 wells is planned for completion by mid-August.

Green

The sampling and analysis plan was approved by the regulators for the 618-11 Burial Ground tritium investigation. Sampling and well drilling activities are planned for initiation in early August.

All groundwater pump and treat systems operated above the planned 90% availability levels in June. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,549 kilograms of carbon tetrachloride, 248 kilograms of chromium, and 1.04 curies of strontium. Approximately 870 million liters of groundwater have been processed in FY01, removing approximately 967 kilograms of carbon tetrachloride, 55 kilograms of chromium, and 0.151 curies of strontium.

The 200-ZP-2 soil vapor extraction system was successfully restarted in April, as planned. Approximately 426 million liters of vapor were processed during June, removing 75 kilograms of carbon tetrachloride. 1.4 billion liters have been processed in FY01, with 267 kilograms of carbon tetrachloride removed.

Field mobilization and drilling pre-start activities were completed at the 216-T-26 Crib. In addition, 200 Area geophysical logging field operations were initiated during June. The first logging was performed at the 216-T-26 Crib which directly supports the 200-TW-1 Operable Unit field characterization work.

Site surveillance and maintenance (S&M) activities proceeded in June to ensure inactive facility integrity and safety. All 100 Area asbestos abatement was completed, and 200 Area asbestos abatement commenced at the 224-U facility. Phase II herbicide spraying was completed for all vegetated areas. Stabilization activities were also completed at the 216-A-42 Retention Basin.

NOTABLE ACCOMPLISHMENTS continued:

A public meeting was held on June 26 to solicit public comment on the B Reactor Engineering Evaluation/Cost Analysis (EE/CA) document.

The Canyon Disposition Initiative (CDI) feasibility study is nearing completion. The feasibility study will provide a detailed analysis of several alternatives to be considered for the final disposition of the defunct 221-U facility (U Plant) chemical processing canyon facility. This study is also expected to influence a final disposition determination for the four additional canyon facilities on the Hanford Site.

Green

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Green

Fifteen *Tri-Party Agreement* milestones are currently planned for completion during FY01. Through June, twelve milestones have been completed, all ahead of schedule.

One *Tri-Party Agreement* milestone is currently unrecoverable. Milestone M-16-03E, Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling, will not be completed by September 30, 2001. Per regulator request, backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed. A *Tri-Party Agreement* change request was transmitted to the U.S. Environmental Protection Agency (EPA) proposing the completion date be revised to September 30, 2003. EPA disapproved the change request on June 20. Negotiations are proceeding with resolution expected by August 31.

Total *Tri-Party Agreement* Milestones Due in FY01	**15**
Total Planned Through June	10
Total Completed Through June	12

Remaining *Tri-Party Agreement* Milestones to be Completed in FY01	**3**
Forecast Ahead of Schedule	2
Forecast On Schedule	0
Forecast Unrecoverable	1

EM Corporate Performance Measures:

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	12	12	18	9
Technology Deployments	0	5	9	9

Green

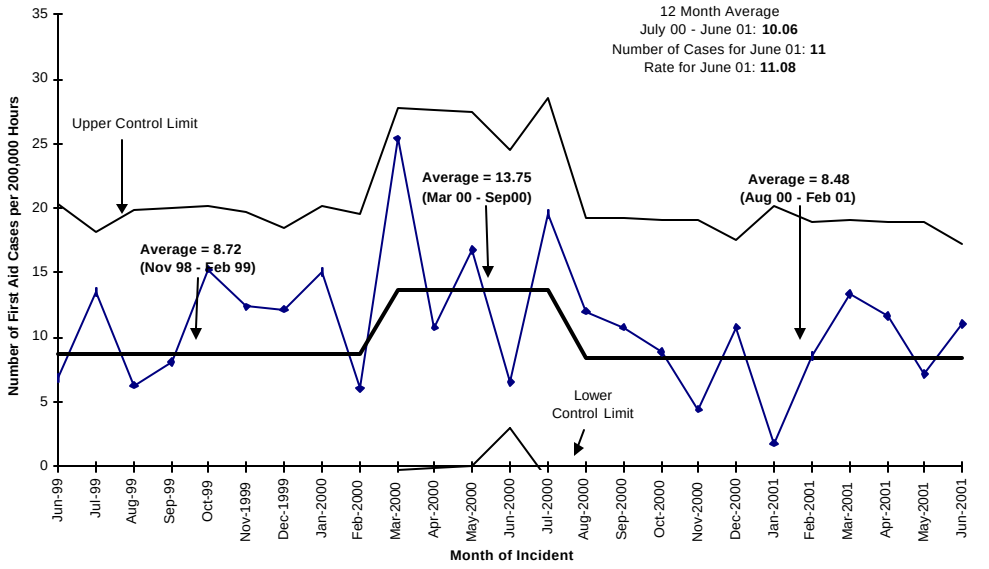
EM Management Commitment:

The Environmental Restoration (ER) Project had one FY01 management commitment milestone, which has been achieved. The management commitment, "Install Four Additional Wells at SST WMA" by September 30, was met on April 2, when installation of five wells was completed.

Green

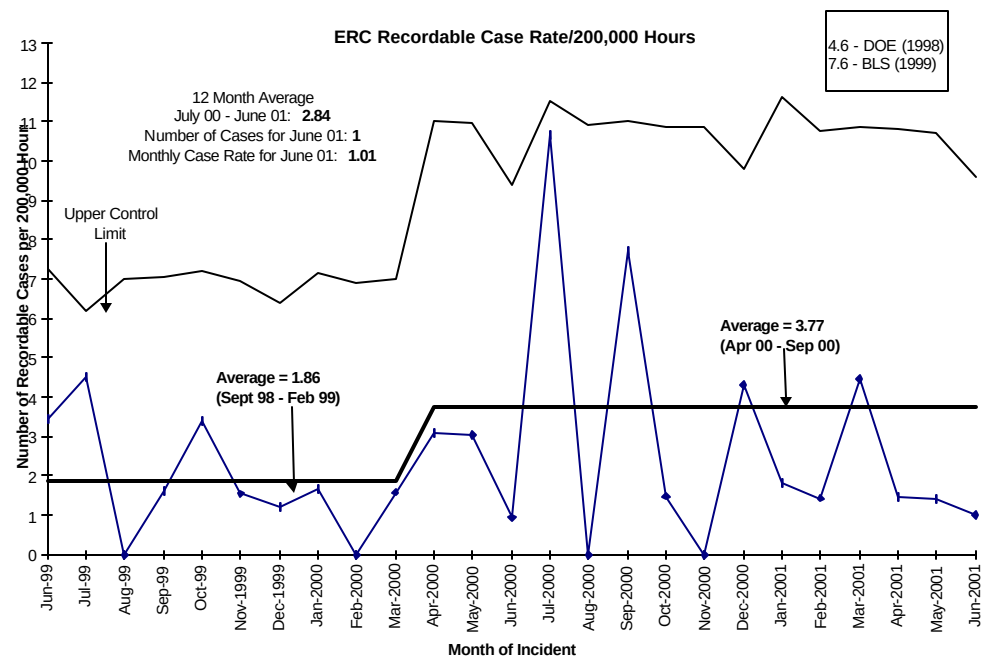
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only):

Green



The data has been stable since August 2000, as there have been no significant trends.

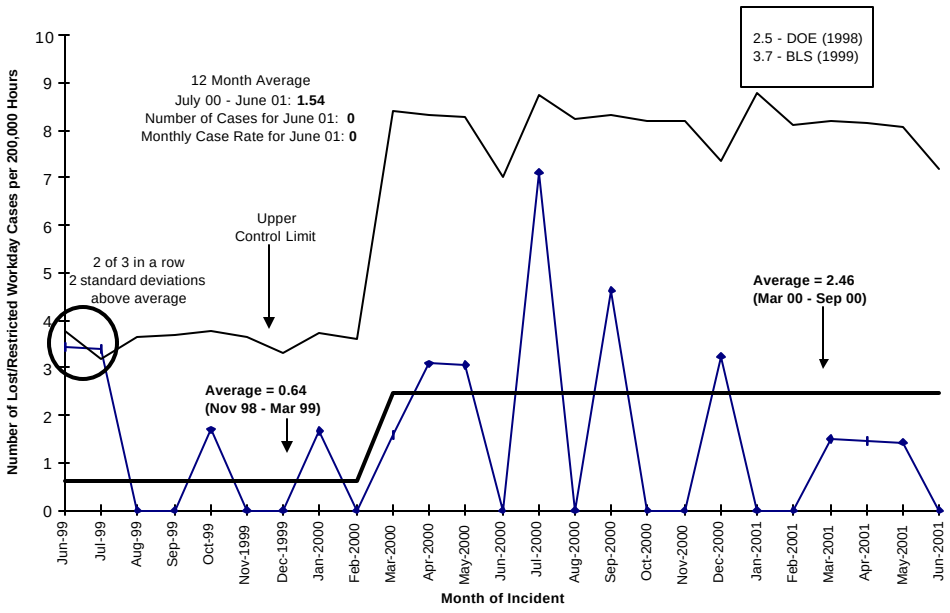
Green



The data has been stable since April 2000, as there have been no s ignificant trends.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Green



The ERC Lost/Restricted Workday Case Rate has been below the baseline average for six consecutive months. The baseline average will be recalculated next month to reflect this significant positive trend.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Green

The following actions have or are being taken by the ERC to focus on safety improvement:

- BHI has developed a Medical Case Management, desktop instruction for ERC managers, supervisors, and safety representatives. The purpose is to provide consistent management of occupational and non-occupational injuries and illnesses. ERC managers, supervisors and safety representatives will receive a copy of the desktop instruction during training sessions.

- BHI has formed a Senior Incident Review Board chaired by the Vice President of Operations, which will meet monthly to review selected incidents. This review board will make sure that the ERC has correctly and thoroughly determined the cause of the incidents and identified correctable opportunities. In addition, lessons learned based on these incidents will be used to prevent future occurrences.

- All accidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that can be implemented where applicable. Timely discussions are expected to take place in safety meetings and plan of the days (PODs). When investigations have been completed, the results of each investigation are sent to the Area Superintendents, Field Superintendents and Supervisors to review at the PODs.

- Continue to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.

- BHI has been working closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.

- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.

- The Field Support General Superintendent and Project Safety Manager visit different projects on a regular basis, meet with project team members and conduct a safety walk around. Information from the walk around is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project personnel or support personnel for action and are tracked to closure. This activity is on-going.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

	FYTD	Current Period (5/14/01-6/24/01)	Current Period Comments
First Aid	64	16	(7) strain, (2) pain, (3) laceration, (1) abrasion, (2) insect sting, (1) foreign body to eye
OSHA Recordable	14	1	(1) back pain
Restricted Workday Case	2	0	N/A
Lost Workday Case	5	0	N/A

Green

The ERC, as of July 21, 2001, reports approximately 240,775 hours since the last lost work day incident. The incident occurred on May 7, 2001 and became a lost time on May 31, 2001.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

ISMS:

Green

ISMS: DOE EM Performance Agreement: Maintain and improve the approved Integrated Safety Management System (ISMS).

Status:

- The Six Sigma Process Improvement Project (PIP) team reviewing the ERC procedure development/revision process continued. The PIP team is evaluating its data and recommendations should be implemented by August 1, 2001.
- Implementation of the new hazard identification and analysis process continued. The team continues to collect data and is assessing the workflow through the Job Hazards Analysis system.
- BHI-MA-02, Procedure 2.7, Rev. 3, Self-Assessment, was issued on June 4, 2001. BHI-MA-02, Procedure 2.1 Corrective Action Request (CAR) Rev. 6 (and associated forms) was issued with an effective date of 6/22/01. The changes were in response to BHI management's request to streamline the Corrective Action Request process.
- Revised the ERC Quality Assurance Program Plans, BHI-QA-03, Section 6.1, "Radiological Air Emissions Monitoring," to more accurately reflect referenced procedures and functional group responsibilities.
- Fire protection assessments were completed for the 271-U Building, PUREX, REDOX, and B Plant complex.
- An Emergency Preparedness (EP) drill was conducted at the 233-S facility and EP drill coordinator training was provided.
- Participated with other Hanford contractors in the kick-off for the renewal of the State Waste Discharge Permit (ST 4508) coordinated by Fluor Hanford. The permit application is due to Ecology on December 1, 2001.
- Issued Assessment Report CQP-01-07, Emergency Management. The assessment concluded that the program is being effectively managed with the exception of a corrective action request concerning the lack of an annual drill by one project. The assessment also included eight observations and three best management practices.
- Completed the field portion of an independent assessment of radiological air emissions monitoring of four stacks and one passive emission point in the 200-West and 200-East Areas. Results of the assessment are pending completion of the records search.
- The draft ISMS Safety Performance Objectives/Performance Measures report was sent to RL for initial review prior to final submittal.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

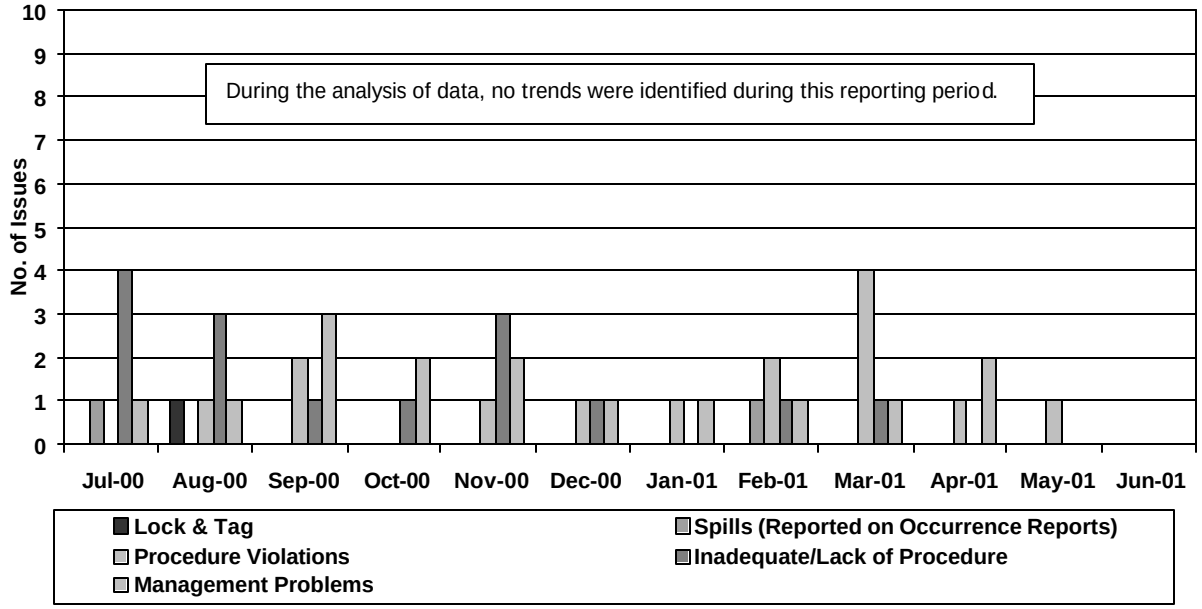
Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 7/1/00 through 6/30/01

	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01
Lock & Tag	0	1	0	0	0	0	0	0	0	0	0	0
Spills (Reported on Occurrence Reports)	1	0	0	0	0	0	0	1	0	0	0	0
Procedure Violations	0	1	2	0	1	1	1	2	4	1	1	0
Inadequate/Lack of Procedure	4	3	1	1	3	1	0	*1	1	0	0	0
Management Problems	1	1	3	2	2	1	1	1	1	**2	0	0

* Trend data not received until June 2001.

** Trend data not received for one item until June 2001



Each potential trend is reviewed and evaluated for impact on the project, and then given the appropriate level of attention based on a graded approach.

June Conduct of Operations Issues:

None reported.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Previous Conduct of Operations Issues Reported in June:

Procedure Problem:

Condition Description:

1.) Field Support personnel have assigned Training Position Descriptions (TPDs) prepared by someone other than their functional manager. The requirement does not make allowances for issuance of TPDs by anyone other than the employee's functional manager.
2.) Procedure revisions have not been entered into the required reading database in a timely fashion. In two instances observed during self-assessment, more than a month lapsed between issuance of the revision and entry into the database. The lapse prevented training coordinators from assigning them as required reading as specified in the requirements, and may have resulted in a violation of the required reading timelines described in the requirements.
3.) The training database identifies employees who have not completed the current revision of a course functionally assigned as training. Not all course revisions require immediate retraining. However, the ERC does not track courses that require immediate retraining upon issuance of a revision to the course. The lack of this information can prevent an employee from positively determining that they have all of the current training required for their job assignment as specified in the requirements. The lack of this information in the training database can hinder the ability of the training coordinators to schedule employees for training contrary to the requirements.

Corrective Action Plan:

Green

1.) Environmental Restoration Contractor Training (ERCT) will revise BHI-HR-02, 1.1 to describe requirements for preparation, approval and maintenance of cross-functional and project TPDs (e.g., concurrence by the employee's functional manager).
2.) Supplemental information submitted by Field Support suggests that a database problem, not a data entry project, resulted in the second deficiency. Automation Technology (AT) will correct the problem during resolution of the Corrective Action Requirement (CAR).
3.) ERCT will revise BHI-HR-02, 1.1 to describe requirements for identifying courses that require retraining upon revision, and courses that do not. Second, the ERC Training database will be reprogrammed to include the ability to indicate when a revised course requires retraining. Third, the ERC Training Cards will be modified to alert the employee when a revised course requires training. As courses are revised, course developers will determine which courses require retraining and identify this requirement on the Course Information Sheet.
4.) A root cause analysis (RCA) was completed to determine the cause for the problem areas and provide opportunities for improvement. The results of the RCA have provided guidance for ensuring the prevention of recurring deficiencies which includes revising BHI-HR-02, 1.1, ERC Training Procedure to document and provide guidance on items discussed above.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Management Problem:

Condition Description: Training was deficient, considering that four lead workers involved with lead shot removal had not received the required annual training. The workers had received initial training, but the most current training received was in 1999. The Lead Shot Removal Plan, dated 2/5/01, indicates workers may exceed the Permissible Exposure Limit of 50 micrograms per cubic meter (pg/m3). The Action Level of 30 mg/m3 was exceeded on six of the seven personal air samples taken during the removal. The ERC Course Information Sheet, prepared by Safety and Health, states that re-certification is not applicable for the Lead Worker Training Course.

Corrective Action Plan: The ERC Course Information Sheet for the Initial Lead Worker Training Course was updated to reflect the re-certification requirements found in BHI-HR-02, Procedure 1.4, "ERC Training Requirements", Section 3.2.2 Lead Hazard Training. Annual retraining is required for those workers subject to lead exposure at or above the action level on any given day.

Green

The lag time between collecting samples to determine exposure and receipt of the sampling results prohibits timely notification and training of employees prior to exposure. In order to ensure timely retraining of the Lead Workers, "Lead Worker Retraining" will be included in the training database for those individuals identified by their management as having the potential for exposure at or above the action level.

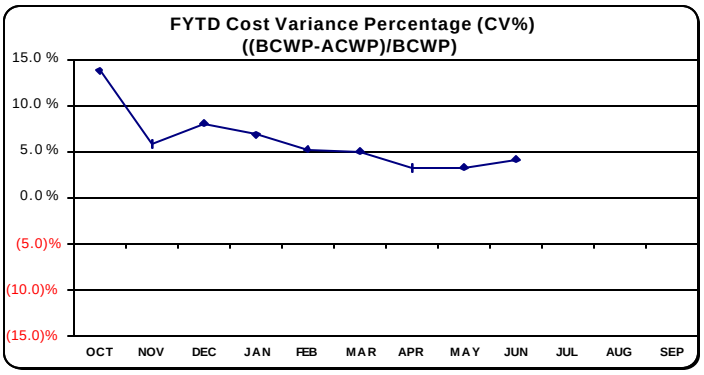
Those personnel who complete the Initial Lead Worker Training Course and are selected by their Functional Managers as having the potential for lead exposure will be scheduled for the Annual Lead Retraining. The retraining course will have an expiration date to ensure notification of retraining occurs.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Refer to individual Project issues in the following Section B and Section C.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL):

Green

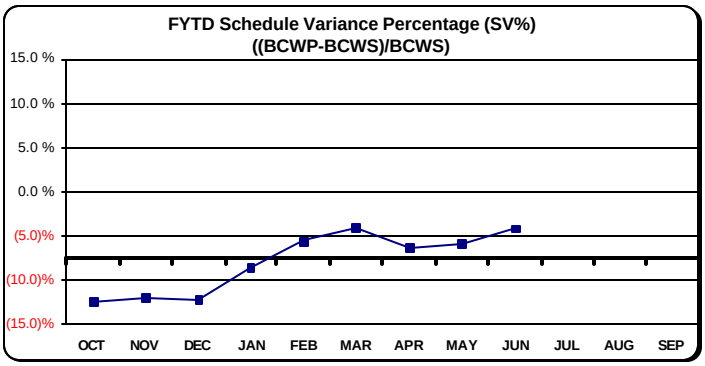


Target performance is better than –5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	12,815				
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660	14,262				
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017				
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614	115,876				
CV	1,539	1,290	2,820	3,301	3,177	3,720	2,855	3,412	4,860				
CV %	13.7%	5.9%	8.0%	6.9%	5.2%	5.0%	3.2%	3.4%	4.2%				
EAC (Cumulative)	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017	128,988	143,822	161,466	162,805
Yr End Budget Variance	195	544	2,241	2,200	2,274	3,316	3,610	4,856	5,051				

For variance explanation by PBS, see Project Status Section of each project.

Green



Target performance is better than –7.5%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,418	12,003	12,656	16,859	13,957	13,038	16,829	14,248	15,948
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660	14,262			
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,322	76,977	93,836	107,793	120,831	137,660	151,908	167,856
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614	115,876			
SV	(1,587)	(2,940)	(4,815)	(4,479)	(3,566)	(3,121)	(5,882)	(6,179)	(4,955)			
SV %	-12.4%	-11.8%	-12.1%	-8.6%	-5.5%	-4.1%	-6.3%	-5.7%	-4.1%			

For variance explanation by PBS, see Project Status Section of each project.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL) continued:

FY01 PERFORMANCE
FYTD JUNE 2001
($K)

	FY01 DWP BCWS	CURRENT BCWS	FYTD BCWS	FYTD BCWP	FYTD ACWP	YTD SCHEDULE VARIANCE $	YTD SCHEDULE VARIANCE %	YTD COST VARIANCE $	YTD COST VARIANCE %	EAC
ER01 100 Area R/A	29617	30676	21794	22730	20573	936	4.3%	2157	9.5%	28414
ER03 300 Area R/A	4127	2369	1807	1437	1321	-370	-20.5%	116	8.1%	2191
ER04 ER Waste Disposal	17420	18696	13786	14055	13333	269	2.0%	722	5.1%	18073
RA-Subtotal	**51164**	**51741**	**37387**	**38222**	**35227**	**835**	**2.2%**	**2995**	**7.8%**	**48678**
ER02 200 Area R/A	443	4175	2605	1348	1450	-1257	-48.3%	-102	-7.6%	4194
ER08 GW Management	24942	30868	21766	20410	20085	-1356	-6.2%	325	1.6%	30738
VZ01 GW/VZ	10833	10998	8769	7673	7293	-1096	-12.5%	380	5.0%	10600
GW/VZ-Subtotal	**36218**	**46041**	**33140**	**29431**	**28828**	**-3709**	**-11.2%**	**603**	**2.0%**	**45532**
ER06 ISS	2065	12608	8719	8598	8393	-121	-1.4%	205	2.4%	12383
ER06 233-S	5130	6363	4601	4360	4980	-241	-5.2%	-620	-14.2%	6921
DD-Subtotal	**7195**	**18971**	**13320**	**12958**	**13373**	**-362**	**-2.7%**	**-415**	**-3.2%**	**19304**
ER05 S&M	13024	13684	10458	10066	9271	-392	-3.7%	795	7.9%	12631
ER07 Long-Term S&M	59	59	25	41	9	16	64.0%	32	78.0%	25
SM-Subtotal	**13083**	**13743**	**10483**	**10107**	**9280**	**-376**	**-3.6%**	**827**	**8.2%**	**12656**
ER10 ERC PM&S	28984	31217	22123	21888	21039	-235	-1.1%	849	3.9%	30492
ER10 RL PM&S	5300	6143	4379	3270	3270	-1109	-25.3%	0	0.0%	6143
PM-Subtotal	**34284**	**37360**	**26502**	**25158**	**24309**	**-1344**	**-5.1%**	**849**	**3.4%**	**36635**
GRAND TOTAL	**141944**	**167856**	**120832**	**115876**	**111017**	**-4956**	**-4.1%**	**4859**	**4.2%**	**162805**

Green

Cost Variance Summary

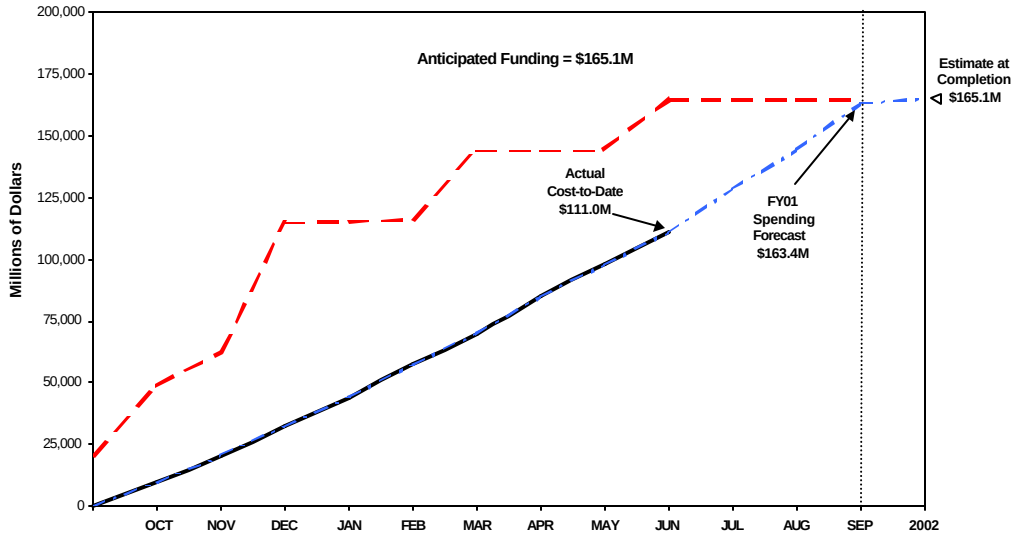
At the end of June, the ER Project had performed $115.9M worth of work, at a cost of $111.0M. This results in a favorable cost variance of $4.9M (+4.2%). The positive cost variance is attributed to less labor required due to sharing resources between 100 D and 100 B/C Area remediation efforts, less labor required to complete remediation cleanup verification packages (CVPs) due to the use of a streamlined format and consolidation of waste sites, ERDF transporting additional waste volumes utilizing existing resources, underruns in GW/VZ monitoring and sampling, 200 Area general S&M tasks and herbicide application costs less than planned, and program management support to field operations using fewer resources than planned.

Schedule Variance Summary

Through June, the ER Project is $5.0M (-4.1%) behind schedule. The negative schedule variance is attributed to delays in 200-TW-1 and 200-TW-2 Operable Unit drive casing installation and borehole drilling activities, waste shipments from RCRA wells placed on hold pending disposition resolution, well decommissioning delays due to extended well document search/selection, delays in groundwater monitoring and maintenance activities, testing for SAC history matching taking longer than planned, GW/VZ soil inventory task delayed due to resource unavailability, and late billings for site-wide assessments.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY2001 Funds Management



			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2002	
	ACTUAL/ANTICIPATED FUNDING		20,500	48,800	62,900	115,100	115,466	116,236	144,126	144,126	144,126	165,087	165,087	165,087	Est. Outyr. ETC	EAC TOTAL
	APPROVED SCOPE															
1	Actual Cost		9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017					
2	Current Monthly EACs		9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	12,815	17,970	14,836	17,623		
3	Cumulative EAC		9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017	128,987	143,823	161,446	1,358	162,805
	JULY FY2001 APPROVED BCPs (Through 07/24/01)															
4	ER08	BCP-21191 ISRM Pond Enhancement										23	24	24	0	71
5	ER08	BCP-21190 Defer FY01 Pump & Treat Maintenance Costs										(29)	(29)	(30)	0	(88)
6	ER06	BCP-21173 Change in Nondestructive Assay Contractors for 233-S										81	81	81	0	243
7	ER10	FCP-21199 PM&S-RL Grant Reduction										(500)			0	(500)
8	Subtotal Approved Scope Changes											(425)	76	75	0	(274)
	FY2001 PENDING BCPs															
9	ER01	BCP-21197 Excavate Additional Tons @ 116-N-3, Increase ERDF Costs, Defer Water Line Bridge										(69)	40	53	0	24
10	ER03	BCP-21184 Add Close-Out Verification Package, Defer 618-4 Burial Ground Procurement										(233)	100	104	0	(29)
11	ER03	BCP-21198 Accelerate 618-4/5 Burial Ground											100	100	0	200
12	ER03	BCP-21201 300 Area Barrel Storage													300	300
13	ER02	BCP-21195 Defer Regulation & Cleanup Standards, Add Agreement in Principal Tasks												13	0	13
14	ER08	BCP-21196 HR-3 Pump and Treat System Design Upgrades										37	38	38	0	113
15	ER08	BCP-21194 KR-4 Pump and Treat System Design Upgrades										59	59	60	0	178
16	ER05	Hexone Tank Stabilization												100	0	100
17	ER06	Treatment for Disposal of 42 Liters of Contaminated Nitric Acid @ 233-S											25	25	0	50
18	ER10	BCP-21183 Deferral of Environmental Mgmt Sys Scope into FY02											(12)	(12)	0	(24)
19	ALL	Pending Scope										544	544	544	0	1,632
20	Subtotal Approved BCPs + Pending BCPs											(87)	970	1,100	300	2,283
21	Current Monthly EAC + July FY2001 Approved BCPs & Pending BCPs		9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	12,815	17,883	15,806	18,723		-
22	Cumulative EAC + July FY2001 Approved BCPs & Pending BCPs		9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017	128,900	144,706	163,429	1,658	165,088

ENVIRONMENTAL RESTORATION

AUGUST 2001

PERFORMANCE OBJECTIVES:

Refer to individual Project information in the following Section B and Section C.

KEY INTEGRATION ACTIVITIES:

RCRA Well Installation: The drilling contract was awarded for the calendar year 2001 (CY01) RCRA well installations. Eleven wells are planned for installation by December 31, 2001. The first six wells will be installed in support of the Office of River Protection (ORP) project.

Green

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-15-41A, Complete 200-TW-1 Operable Unit Field Work Through Drilling and Sample Collection, due October 31.

Green

Tri-Party Agreement Milestone M-15-42A, Complete 200-TW-2 Operable Unit Field Work Through Drilling and Sample Collection, due October 31.

Environmental Management Performance Report

August 2001

Section B - River Corridor Information

- **Remedial Action and Waste Disposal Project**
- **Decommissioning Projects (Interim Safe Storage and 233-S)**
- **Program Management and Support**

Brokk™ Used for Sampling Activities at F Reactor Fuel Storage Basin

Knee Brace Platform Support Installation in 233-S Facility

Disposal of Waste into ERDF Cell #3

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end June.
All other data as of July 27 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0107059a.1

Remedial Action and Waste Disposal Project (RAWD)

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations: During June, ERDF disposal operations began disposing waste in Cell #3. Crushed empty waste drums that were received from the 600-23 site were macroencapsulated within ERDF. Leachate sampling was also completed from Cells #1, #2, and #4.

The ERDF disposal team has worked 1,109 days (since project inception) without a lost-time accident.

During June, shipments totaling 50,500 metric tons (55,668 tons) of contaminated waste were transported to ERDF. 414,092 metric tons (456,461 tons) of waste have been disposed in fiscal year 2001 (FY01), which is about 8% ahead of the plan. To date, a total of 2,720,854 metric tons (2,999,244 tons) of material have been disposed in ERDF.

100 B/C Area Remediation: Pipeline removal continued for pipeline #3 (1.2-meter [48-inch] concrete) and pipeline #4 (1.5-meter [60-inch] steel). Excavation commenced for demolition of the river outfall structures. Concrete structure removal was completed at two of the three outfalls. Permanent power installation to office trailers was completed.

100 D Area Remediation: Subcontract closeout activities were completed on June 15. 100 D Area excavation and backfill were completed in late February.

100 F Area Remediation: Ongoing remediation activities include excavation at UPR-100-F-2 Basin Leak waste site and overburden removal at the 1.4-meter (54-inch) discharge pipelines. Excavation was also started on the large plume associated with the 116-F-2 Trench.

The southern ash pit sampling results were received. Europium contamination levels exceeded the Record of Decision (ROD) cleanup levels. Since the europium levels will decay below the ROD cleanup level by 2018, the regulators concurred no further remediation is required. This will eliminate approximately nine months of excavation activity at the 100 F Operable Unit. 100 F Area excavation work is currently planned for completion in early FY03.

100 H Area Remediation: Backfill operations progressed at the 116-H-7 Retention Basin which is the last and largest liquid disposal waste site at 100 H Area.

100 N Area Remediation: Excavation and loadout activities continued for the 116-N-3 Crib plumes and the 116-N-3 bypass structure. Demolition of the bypass structure is complete with the exception of one section under the roadway.

Radiological surveying and topographical surveying at the 116-N-1 Crib and Trench were performed to aid in planning for construction of site access roads and remediation activities. Site setup activities are scheduled to begin by the beginning of September.

Export water line support bridge activities remain on hold pending regulator review of alternatives for support bridge installation.

300 Area Remediation: The 618-4 Burial Ground barrel staging evaluation continued. A list of potential locations in the 200 and 300 Areas were identified and evaluated. A meeting was held with Fluor Hanford (FH) management from the Central Waste Complex to discuss waste receiving and packaging requirements for the buried drums that contain uranium chips.

Green

ACCOMPLISHMENTS continued: RAWD

Site maintenance work was initiated for the uranium oxide drums stored at the 618-4 Burial Ground. The planning phase was completed for sampling the drums. Sampling will occur after the drum maintenance activities have been completed. These sampling results will be used to determine which oxide drums can be shipped to ERDF for macroencapsulation.

300/600 Area Remediation: Data validation packages were received for the J.A. Jones and 600-23 waste sites on June 27. Backfill activities are planned to be initiated in August, and reseeding will be completed later this fall. Thirty drums of tar-like material were shipped offsite from the 600-23 site for treatment.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD

- **DOE Secretarial:**

None identified at this time.

- **DOE EM Performance Agreement:**

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

- ***Tri-Party Agreement* Milestones:**

Milestone	Description	Due Date	(F) / (A) Date	
M-16-26D	Begin Excavation Activities at 100 B/C Process Effluent Pipelines.	2/28/01	2/26/01 (A)	Green
M-16-07B	Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	7/31/01	2/28/01 (A)	
M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	7/31/01	7/25/01 (A)	
M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	9/30/01	7/19/01 (A)	
M-16-03E	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling	9/30/01	9/30/03 (F)*	Yellow
M-16-26G	Remove filter boxes and complete verification sampling for 100-B-12 waste site	9/30/01	5/31/01 (A)	Green
M-16-00F	Establish Date for Completion of all 100 Area Remedial Actions	12/31/01	12/31/01 (F)**	Yellow
M-16-41B	Submit Cleanup Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	3/31/02 (F)	
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1/-2, 100-DR-1/-2, and 100-HR-1 OUs and Process Effluent Pipelines in the 100-DR-1/-2, and 100-HR-1 OUs. Complete revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1/-2, and 100-HR-1 OUs as defined in the RDR/RAWP for the 100 Area.	3/31/02	3/31/02 (F)	Green

*Per regulator request, Kd (partitioning coefficient) study is being performed to determine uranium leachability in the 300 Area. 300-FF-1 backfill will be deferred until leachability concerns are resolved. A *Tri-Party Agreement* change request was forwarded to EPA on June 11 proposing the completion date be revised to 9/30/03. EPA disapproved the change request on June 20. Negotiations are proceeding with resolution expected by August 31.

**Awaiting DOE direction prior to initiating discussions with regulators; 110-day notification required by September 12.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

- **DNFSB Commitment:**

None identified at this time.

PERFORMANCE OBJECTIVES: RAWD

	Task	Status
RAWD	• 490,000 Tons by 9/30/01	On schedule.
	• Backfill 16 Sites by 9/30/01	On schedule.
	• 50,000 Additional Tons by 9/30/01 **(Stretch)**	100% of Stretch undertaken as of 2/28/01.
	CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04	(*Detail Section 6C)

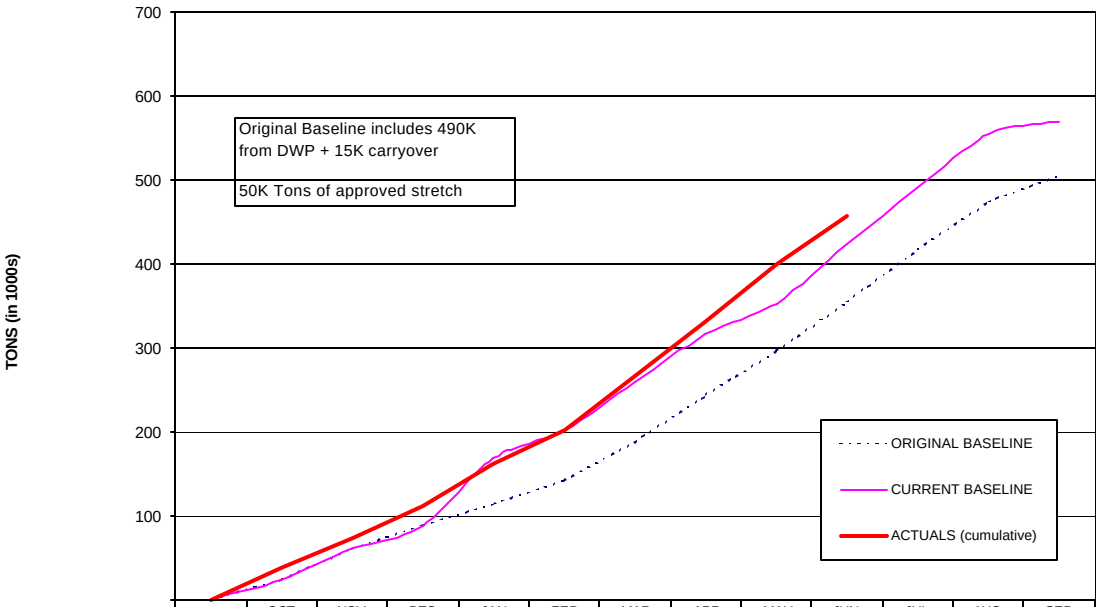
Green

PERFORMANCE MEASURES/METRICS: RAWD – (River and Plateau)

	DWP FY01	FY01 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Completed YTD
Waste Sites Excavated	12	12	18	9

Green

Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
ORIGINAL BASELINE		24	61	89	114	142	188	244	296	355	417	474	505
CURRENT BASELINE		24	61	89	169	201	259	316	353	423	491	554	570
ACTUALS (cumulative)		38	73	111	162	203	267	332	401	456			

MONTH

STRETCH AND SUPERSTRETCH GOALS: RAWD

FY01 RAWD "Stretch" Goals	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Material by 9/30/01	
(1) Additional Contaminated Material at 100-F Pipelines (BCP 21013 approved 11/00)	8.0K
(2) Additional Contaminated Material at 100-H Sites (BCP 21014 approved 11/00)	7.5K
(3) (Additional Contaminated Material at 100-F Sites of 36.4 approved in February) (BCP 21043 approved 2/01)	34.5K
S/Total Remedial Action Stretch Goals:	**50.0K**

Green

(*through June 30)

STRETCH AND SUPERSTRETCH GOALS continued: RAWD

FY01 RAWD "Superstretch" Goals	Approved BCPs (K)
***Complete Remediation of 60 Square Miles of Hanford Site: (1) Complete Remediation of J.A. Jones Pit #1 and 600-23**	$1640.9K
S/Total Remedial Action Superstretch Goals:	**$1640.9K**

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): RAWD

- **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	$K	$K	$K
ER01 100 Area Remedial Actions	21,794	22,730	936
ER03 300 Area Remedial Actions	1,807	1,437	(370)
ER04 ER Waste Disposal	13,786	14,055	269
TOTAL Remedial Actions	**37,387**	**38,222**	**835**

Green

PBS-ER01 – 100 Area Remedial Action
Schedule Variance = **$936K; 4.3%** [Last Month: ($89K); (0.5%)]

Cause: Backfill activities at 100-HR-1 and excavation at 100-BC-1 are ahead of schedule due to subcontractor maximizing equipment usage and coordination of resources between sites.

Resolution: None required; will monitor.

PBS-ER03 – 300 Area Remedial Action
Schedule Variance = **($370K); (20.5%)** [Last Month: ($373K); (22.9%)]

Cause: Delays in the 300-FF-1 remediation contract closeout; award of burial ground barrel removal contract delays pending resolution of waste disposition issues.

Resolution: Contractor is reviewing options and subcontract waste stream disposal is being studied; a BCP is in progress to defer procurement of barrel removal.

PBS-ER04 – Environmental Restoration Waste Disposal
Schedule Variance = **$269K; 2.0%** [Last Month: $526K; 4.3%]

Cause: More ton miles of waste were transported and disposed than planned due to additional plume remediation at soil sites.

Resolution: None required.

PROJECT STATUS (COST/SCHEDULE) continued: RAWD

- **Cost:**

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		$K	$K	$K
ER01 100 Area Remedial Actions	28,414	22,730	20,573	2,157
ER03 300 Area Remedial Actions	2,191	1,437	1,321	116
ER04 ER Waste Disposal	18,073	14,055	13,333	722
TOTAL Remedial Actions	**48,678**	**38,222**	**35,227**	**2,995**

Green

PBS-ER01 – 100 Area Remedial Action
Cost Variance = **$2157K; 9.5%** [Last Month: $1497K; 7.7%]

Cause: Less labor was required due to sharing DR site non-manual resources with the 100-BC work scope needs, shifting of personnel to other waste sites, less design and supervision required, and backfill completed six weeks early; material costs at 100-BC-1 have not been incurred as planned.

Resolution: Reflected in the EAC.

Cause: Cleanup Verification Packages (CVPs) continue to require less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites. Estimated completion costs for the lead brick survey have been reduced to reflect actual charges.

Resolution: Reflected in the EAC.

Cause: 100 Area Burial Ground Design costs were less than planned due to fewer drawings being required; less effort required to prepare the SAP due to consorted efforts in the DQO process.

Resolution: Reflected in the EAC.

PBS-ER03 – 300 Area Remedial Action
Cost Variance = **$116K; 8.1%** [Last Month: $57K; 4.5%]

Cause: Coordination of 300-FF-2 and 100 Area Burial Grounds design efforts has resulted in savings; Pacific Northwest National Laboratory (PNNL) staff and subject experts were utilized on the 618-10/11 Engineering Study Historical Research resulting in additional savings.

Resolution: Reflected in the EAC.

PBS-ER04 – Environmental Restoration Waste Disposal
Cost Variance = **$722K; 5.1%** [Last Month: $890K; 7.0%]

Cause: Transported additional waste volumes utilizing existing resources.

Resolution: Reflected in the EAC.

REGULATORY ISSUES: RAWD

***Tri-Party Agreement* Milestone M-16-03E:** M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", due September 30, 2001 will be missed due to the U.S. Environmental Protection Agency (EPA) requirement to perform a partitioning coefficient (Kd) study on uranium leachability. Regrading will not be completed until study results confirm that no further excavations will be required.

Yellow

Status: EPA requested a Kd study be performed to address uranium mobility in the 300 Area. This study consists of obtaining uranium-contaminated samples, and performing leach rates with follow-on absorption tests, resulting in a Kd value. A data quality objective (DQO) was completed, and a baseline change proposal (BCP) was prepared to secure funding for the study. The study was initiated in March, and will be completed in FY02. A *Tri-Party Agreement* change package was transmitted to the regulators on June 11 proposing the date be revised to September 30, 2003. EPA disapproved the change package on June 20. Negotiations are proceeding to resolve this issue by August 31.

***Tri-Party Agreement* Milestone M-16-03F - 618-4 Burial Ground:** It is unlikely that treatment of the 618-4 Burial Ground uranium metal/oil drummed waste can be performed this fiscal year. The treatment technology has been identified, however, the treatment facility startup process is proceeding slower than planned. Currently, it appears that the treatment facility may be unable to receive the uranium metal/oil drummed waste until early FY03. EPA has indicated a need to show continuous progress at 300-FF-1 in FY01, and is also requesting a milestone date be established for excavation of the 618-4 Burial Ground.

Yellow

Status: A BCP was approved to treat and dispose of the 78 uranium oxide powder drums currently staged in the 618-4 Burial Ground. This workscope will be performed in lieu of initiating treatment of the uranium metal/oil drums in FY01. Adding the 618-4 Burial Ground scope to the revised M-16-03E milestone will require further discussions among the Tri-Party participants. Negotiations are proceeding to resolve this issue by August 31.

***Tri-Party Agreement* Milestone M-16-00F - Establish Date for Completion of All 100 Area Remedial Actions:** This milestone is due on December 31, 2001 and will develop the dates and workscope for any remaining remedial actions in the 100 Area. Currently, most of these remedial actions are in the 100 Area Long Range Plan (miscellaneous pipelines are still being developed). *Tri-Party Agreement* Major Milestone M-16-00 compliance date is September 30, 2018. In addition, *Tri-Party Agreement* Milestones M-93-14 / M-93-15 (Initiate / Complete Negotiation of Remaining Surplus Reactor Disposition Schedules) and potentially M-16-03A (Establish Date for Completion of 300 Area Remedial Actions) will also be addressed in these negotiations.

Yellow

Status: RL has initiated development of a strategy for negotiation of M-16-00F that includes the River Corridor outcome.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): RAWD

None identified at this time.

INTEGRATION ACTIVITIES: RAWD

None identified at this time.

Decommissioning Projects (D&D)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F Reactor Interim Safe Storage (ISS): The readiness assessment was conducted on June 4-7 for the F Reactor Fuel Storage Basin (FSB) Phase II cleanout (bottom 1-meter [3-foot] fill/sludge removal and sample collection). Work packages were also completed for the FSB Phase II demolition. The Brokk™ excavator was mobilized in the FSB, and lower fill sampling was completed the end of June. Samples will be shipped to an offsite laboratory for analysis. Transfer pit demolition was completed for approximately 5 meters (15 feet) below grade. Dewatering was discontinued in the FSB. The pump was disconnected from the holding tank, and the well was removed during transfer pit demolition.

Walkdowns were completed at F Reactor in support of the safe storage enclosure (SSE) design work.

D and H Reactors ISS: At D Reactor, liquid pipe checks and pipe/equipment removal were completed in the FSB (Area 4) during June. Hazardous material was also removed from the FSB. Asbestos was removed from piping in the accumulator/rod room (Area 5). At H Reactor, work also proceeded in the removal of hazardous material and pipe/equipment.

233-S Plutonium Concentration Facility Decommissioning Project: June activities that were accomplished in the highly contaminated 233-S facility included the following:

- Completed nondestructive assay (NDA) for 67 waste packages.
- Completed hole drilling, hanger, and 233-SA transition installation for the ventilation modification.
- Completed drilling holes for L-3/L-12 vessel staging knee braces. Three braces were installed. Through June, five of the eight vessels planned for FY01 have been removed, on or ahead of schedule.
- Removed approximately 8 meters (25 feet) of process hood pipe.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: D&D

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): D&D

- **DOE Secretarial:**

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: D&D

- **DOE EM Performance Agreement:**

None identified at this time.

- ***Tri-Party Agreement* Milestones:**

Milestone	Description	Due Date	(F) / (A) Date
M-93-12	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (....)	2/28/02	*TBD

Green

*Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY02. Initial discussions are underway.

- **DNFSB Commitment:**

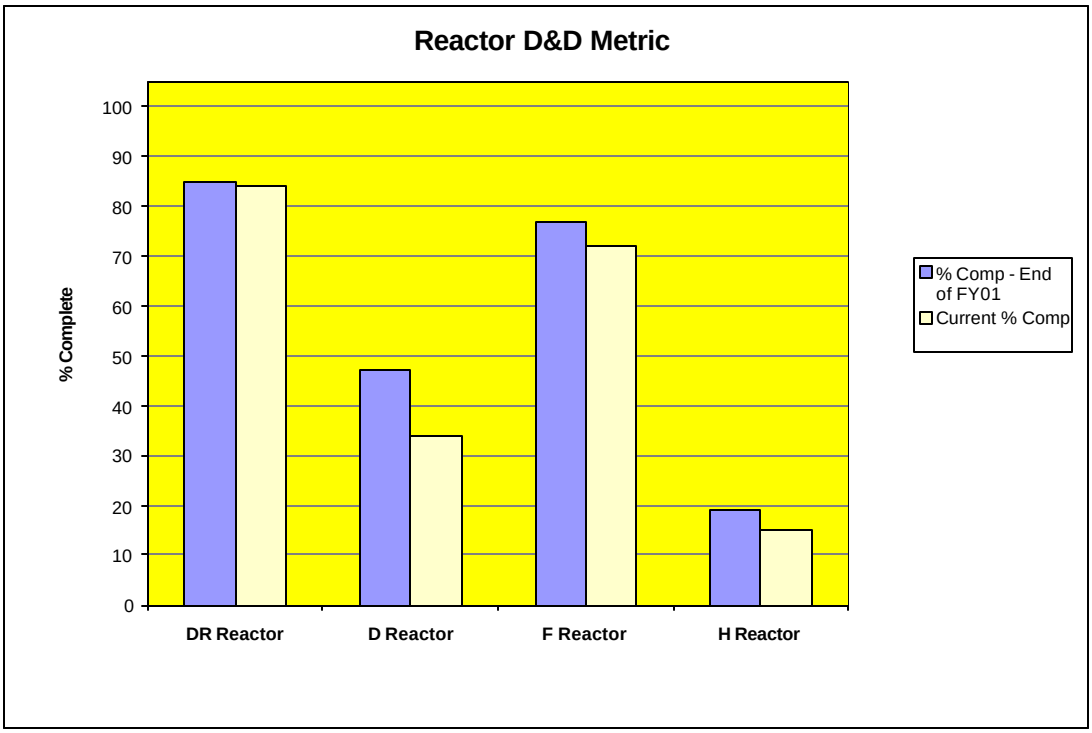
None identified at this time.

PERFORMANCE OBJECTIVES: D&D

PI	Task	Status
233-S	• 8 vessels by 6/30/02 • 7 additional vessels by 6/30/02 **(Stretch)** CV <5.0%; SV <7.5% for PBS ER-06	Critical path activity on schedule. NDA issue is impacting cost. Currently being reviewed by RL, BHI, and FH. BCP-21023 approved. Stretch activities in progress and on schedule. (*Detail Section 6C)
ISS	• D Reactor Major Tasks by 9/30/01 • DR Reactor Major Tasks by 9/30/01 • F Reactor Major Tasks by 9/30/01 • H Reactor Major Tasks by 9/30/01 CV <5.0%; SV <7.5% for PBS ER-06	Critical path activities on schedule; received authorization funding in December. F Reactor basin fill removal activities have been replanned to accommodate removal of fill in two 15" lifts vs. one 30" lift. Scheduled completion date is now 11/30/01. BCP 21187, with associated PI change justification, was submitted to DOE on June 15. Awaiting formal PI change from K. Klein.

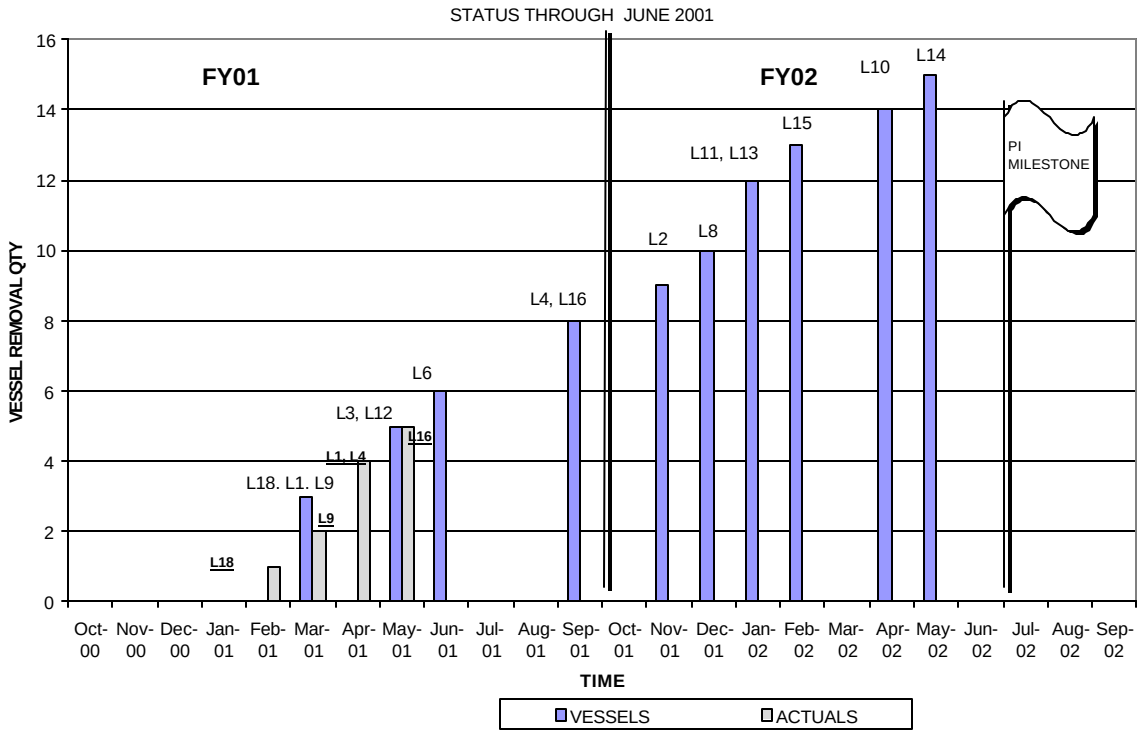
Green

PERFORMANCE MEASURES / METRICS: D&D



Green

VESSEL REMOVAL BASELINE SCHEDULE



STRETCH AND SUPERSTRETCH GOALS: D&D

FY01 D&D "Stretch" Goals	Approved BCPs (K)
Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only) (BCP 21023 approved 11/00)	$1,072.0K
S/Total D&D Stretch Goals:	**$1,072.0K**

Green

FY01 D&D "Superstretch" Goals	Approved BCPs (K)
***Continue F Reactor Interim Safe Storage**	$1372.4K
S/Total D&D Superstretch Goals:	**$1372.4K**

Green

*Carried over from FY00. Completed – Notice of Completion submitted on 5/3/01.

PROJECT STATUS (COST/SCHEDULE): D&D

- **Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	$K	$K	$K
ER06 ISS and Other D&D Projects	8,719	8,598	(121)
ER06 233-S	4,601	4,360	(241)
TOTAL D&D	**13,320**	**12,958**	**(362)**

Green

PBS-ER06 – Decontamination and Decommissioning
Schedule Variance = **($362K); (2.7%)** [Last Month: ($628K); (5.1%)]

Cause: Demolition activities at D Reactor have been delayed due to equipment and resource availability; backfill has been delayed due to waiting for regulator approval.

Resolution: A detailed schedule has been developed, and equipment and resources have been assigned to complete above grade demolition by the end of September.

Cause: Process hood vessel removal at the 233-S facility is behind schedule due to difficulty in removing neutron monitors, stringent procedures slowed TRU waste shipments, nondestructive assay (NDA) labor support was not available, and late start of concrete drilling for ventilation modification.

Resolution: Selective overtime will continue to be used to recover the schedule; continue to look for better ways to accomplish work safely.

PROJECT STATUS (COST/SCHEDULE) continued: D&D

- **Cost:**

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		$K	$K	$K
ER06 ISS and Other D&D Projects	12,383	8,598	8,393	205
ER06 233-S	6,921	4,360	4,980	(620)
TOTAL D&D	**19,304**	**12,958**	**13,373**	**(415)**

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = **($415K); (3.2%)** [Last Month: ($613K); (5.3%)]

Cause: Overrun at the F Reactor Fuel Storage Basin (FSB) due to resolving work package issues while work was on hold; and procedural changes resulting in loss in efficiency in removing material from the FSB.

Resolution: Additional costs have been trended.

Cause: Overrun at the 233-S Facility due to purchase of Standard Waste Boxes (SWB) and additional tools needed for process hood pipe and vessel removal.

Resolution: Overrun has been partially reflected in the EAC.

REGULATORY ISSUES: D&D

D and H Reactor Impacts of *Tri-Party Agreement* Milestones: The acceleration of the reactor ISS projects is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12) for DR Reactor.

Green

Status: Initial discussions with the regulators have begun. This will need to be discussed as part of RL's 100 Area acceleration vision.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D

233S- Process Hood: 232 items of nondestructive assay (NDA) information previously provided by Fluor Hanford (FH) Plutonium Finishing Plant (PFP) in final data reports are invalid because of calibration errors that occurred in May 1999.

Yellow

Status: FH PFP provided an initial report indicating the extent of the error. Subsequent to that report FH PFP has reported additional discrepancies which also affect the validity of the data.

Based on preliminary and subsequent information, BHI determined that no authorization basis limits were impacted. Items shipped to ERDF will be assessed to assure proper waste classification. The additional discrepancies that PFP reported have resulted in delays in completing this review.

A BHI schedule identifying actions to address these issues has been provided to EPA. Low level waste (LLW) shipments to ERDF were halted and an approval process has been set up allowing shipments of LLW to be disposed of in ERDF after receiving EPA approval. BHI will complete the assessment of the impact on waste shipments once FH PFP provides a complete description of the magnitude and extent of the errors.

INTEGRATION ACTIVITIES: D&D

None identified at this time.

Program Management and Support (PM&S)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).**

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: During June, annual fire protection assessments were performed at U Plant, B Plant, 224-B, REDOX, and Plutonium Uranium Reduction Extraction (PUREX) buildings.

ERC Safety and Health personnel participated in the 2001 Hanford Site emergency preparedness field exercise that was conducted in June.

PROGRAM AND PROJECT SUPPORT:

Procurement and Property Management: The ERC continues to meet or exceed socio-economic contracting goals for FY01. The FY01 socio-economic contractual goals versus actual percentages (through June) are as follows:

Total	Small Business	Goal: 50.0%	Actual: 50.5%
	Small Disadvantaged Business	Goal: 6.5%	Actual: 18.9%
	Women-Owned	Goal: 3.5%	Actual: 4%

ENGINEERING AND TECHNOLOGY:

Environmental Technologies: At the 2001 DOE Pollution Prevention Conference in Albuquerque, New Mexico held on June 18-22, Bechtel Hanford, Inc. (BHI) received a national pollution prevention award for its work and implementation of the Small Diameter Geophysical Logging System. BHI also received a runner-up award for utilizing value methodology in assessing waste minimization opportunities.

Technology Applications: ERC Technology Applications personnel supported deployment of the Remote Soil Removal System. This system consists of a Brokk™ 330N excavator that is being used for remote characterization and material removal at the F Reactor Fuel Storage Basin (FSB).

PLANNING AND CONTROLS:

The FY02 Detailed Work Plan (DWP) kickoff meeting was held on June 27. Representatives from ERC, RL, regulators, and stakeholders were in attendance. The FY02 DWP Development Process Guidance document was also issued.

Potential impacts were transmitted to RL site management regarding the proposed site-wide change control procedure. Support was also provided in development of interfaces between the ERC change control process and the RL process.

Support continued for the FY03 budget development effort. Support also continued for various FY02 funding exercises as requested by RL and HQ.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: PM&S

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: PM&S

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: PM&S

Six Sigma:

Green

- Implementation of Six Sigma program across the ERC.
- Phase II process improvements continue for the *Waste Management PIP* (PIP#1) which was completed in April.
- The *ERC Procedure Development PIP* (PIP#2) was completed in June.
- The *Radiation Control Instrumentation PIP* (PIP#3) is in the "Improve Phase" and is about 60% complete.
- The *Contaminated Concrete Demolition PIP* (PIP #4) Draft "Business Plan" has been developed.
- BHI leads the effort on the *NV / RL Waste Management PIP,* which is currently in the "Measure" phase.
- On June 21, The ERC Six Sigma Yellow Belts held their first report out session with ERC and DOE management.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): PM&S

- **DOE Secretarial:**

None identified at this time.

- **DOE EM Performance Agreement:**

None identified at this time.

- ***Tri-Party Agreement* Milestones:**

None identified at this time.

- **DNFSB Commitment:**

None identified at this time.

PERFORMANCE OBJECTIVES: PM&S

Comprehensive Measures

Comprehensive Measure	Task	Status
Safety	• The Contractor shall protect worker safety and health, public safety and health, and the environment.	Reference the Safety Section of the Cross-Cutting package.
Operational Excellence	• Migrate systems to facilitate PBS restructuring in FY02 • Rebaseline completed per Baseline Updating Guidance (BUG) • Integrate technology into Projects • Achieve pollution prevention/waste minimization	Rebaseline activities completed on 1/10/01. All other activities on schedule for completion as planned, however DWP preparation activities are being compressed due to delayed receipt of formal planning guidance.
Effective Leadership	• Management Effectiveness • Customer Satisfaction • Effective Financial Management • Cost/Price Analysis	A concern was raised by the RL Facility Representative with regard to improving productivity at 233-S. BHI responded that work is being conducted in accordance with the DWP, which was validated by all parties.

Green

PERFORMANCE MEASURES/METRICS: PM&S

ERC identified five technologies to be deployed during FY01. Through June, nine technologies have been deployed.

Technology Deployment	PBS	(F)/(A) Date
Remote Retrieval System (Brokk ™ 330N with appropriate attachments)	RL-ER06	6/01 (A)
3D Visual and Gamma Imaging System (Gamma Cam)	RL-ER06	2/01 (A)
In Situ Object Counting System (ISOCS)	RL-ER06	2/01 (A)
Polyshield SS-100 Fixative	RL-ER01	12/00 (A)
Surveillance and Measurement Model 935	RL-ER01	5/01 (A)
Ultrasonic Liquid Level Detection	RL-ER06	2/01 (A)
Guzzler Vacuum Truck	RL-ER03	2/01 (A)
Laser-Assisted Ranging and Data System	RL-ER06	3/01 (A)
Compact Remote Console	RL-ER06	6/01 (A)

Green

STRETCH AND SUPERSTRETCH GOALS: PM&S

None identified at this time.

PROJECT STATUS (COST/SCHEDULE): PM&S

- **Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	$K	$K	$K
ER10 ERC Program Management & Support	22,123	21,888	(235)
ER10 RL Program Management & Support	4,379	3,270	(1,109)
TOTAL PM&S	**26,502**	**25,158**	**(1,344)**

Green

PBS-ER10 – Program Management and Support
Schedule Variance = **($1344K); (5.1%)** [Last Month: ($1569K); (6.6%)]

Cause: Hanford Environmental Information System (HEIS)/Hanford Geographic Information System (HGIS)/Waste Information Data System (WIDS), project specific databases staffs, and Regulatory Support staff are working on higher priority direct project scope.

Resolution: Temporary schedule delay; subcontractor/temporary labor and summer student on board.

Cause: Late billing to RL on site-wide assessments.

Resolution: RL is discussing billing/timing with other site contractors/government agencies.

- **Cost:**

Program Management & Support	FY01 EAC	BCWP	AWP	Variance
		$K	$K	$K
ER10 ERC Program Management & Support	30,492	21,888	21,039	849
ER10 RL Program Management & Support	6,143	3,270	3,270	0
TOTAL PM&S	**36,635**	**25,158**	**24,309**	**849**

Green

PBS-ER10 – Program Management and Support
Cost Variance = **$849K; 3.4%** [Last Month: $423K; 1.9%]

Cause: Records and Document Control, Procurement, Design Engineering, and Sample and Data Management support needs were less than anticipated.

Resolution: Underrun has been trended and is reflected in the EAC.

REGULATORY ISSUES: PM&S

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): PM&S

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

INTEGRATION ACTIVITIES: PM&S

None identified at this time.

Environmental Management Performance Report

August 2001

Section C - Central Plateau Information

- **Groundwater/Vadose Zone Integration Project**
- **Surveillance/Maintenance & Transition Projects**

Well Decommissioning

A Downhole Well Casing Perforator being Used in Decommissioning Activities

Exhaust Fan Repair at REDOX

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end June.
All other data as of July 27 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0107059a.2

Groundwater/Vadose Zone Integration Project (GW/VZ)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).**

Groundwater/Vadose Zone Integration Project(GW/VZ):

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

Science and Technology: Biological fate and transport experiments were initiated. These experiments will help determine impacts of technetium-99 on aquatic species.

GROUNDWATER MANAGEMENT:

Long-Term Groundwater Monitoring: Colloidal borescope field investigations were completed for A-AX and C single shell tank farm wells. Evaluation of the investigation results is underway.

Remediation: Well drilling was initiated at 200-UP-1.

In Situ Redox Manipulation (ISRM) Project: During June, well installation operations were completed for Phase II of the ISRM project. Barrier well injections are ongoing.

Well Decommissioning: The final contract was awarded for FY01 well decommissioning operations. 90 wells are planned for decommissioning this fiscal year with 70 wells completed through June. Decommissioning for the remaining 20 wells is planned to be completed by mid-August.

Carbon Tetrachloride Investigation: All characterization and drilling activities were completed at the Z-9 site.

Tritium Investigation: The sample analysis plan was approved by the regulators for the 618-11 Burial Ground tritium investigation. Sampling and well drilling activities are planned to be initiated in early August.

Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in June. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,549 kilograms of carbon tetrachloride, 248 kilograms of chromium, and 1.04 curies of strontium. Approximately 870 million liters of groundwater have been processed in FY01, removing approximately 967 kilograms of carbon tetrachloride, 55 kilograms of chromium, and 0.151 curies of strontium.

The 200-ZP-2 soil vapor extraction system was successfully restarted in April, as planned. Approximately 426 million liters of vapor were processed during June, removing 75 kilograms of carbon tetrachloride. 1.4 billion liters have been processed in FY01, with 267 kilograms of carbon tetrachloride removed.

Green

ACCOMPLISHMENTS continued: GW/VZ

200 AREA ASSESSMENT:

Field mobilization and drilling pre-start activities were completed at the 216-T-26 Crib. In addition, 200 Area geophysical logging field operations were initiated during June. The first logging was performed at the 216-T-26 Crib which directly supports the 200-TW-1 Operable Unit field characterization work.

Separate briefings were presented to the Yakima Tribal Nation, Washington State Department of Fish and Wildlife, and the Natural Resources Trustee Council on the strategy and current status of collecting and evaluating ecological resource information for the Central Plateau.

Green

SAFETY/ ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ

- **DOE Secretarial:**

None identified at this time.

- **DOE EM Performance Agreement:**

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/VZ

- ***Tri-Party Agreement* Milestones:**

Milestone	Description	Due Date	(F) / (A) Date	
M-13-00K	Submit One 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/21/00 (A)	Green
M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/21/00 (A)	
M-24-46	Install Three Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)	
M-24-47	Install Four Additional Wells at SST WMA T	12/31/00	12/27/00 (A)	
M-24-48	Install Three Additional Wells at SST WMA TX-TY	12/31/00	12/27/00 (A)	
M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/27/00 (A)	
M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement	12/31/00	11/01/00 (A)	
M-24-49	Install Three Additional Wells at SST WMA S-SX	4/30/01	3/30/01 (A)	
M-24-50	Install Two Additional Well at SST WMA TX-TY	4/30/01	4/02/01 (A)	
M-15-41A	Complete 200-TW-1 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)	
M-15-42A	Complete 200-TW-2 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)	
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	12/31/01	12/31/01 (F)	
M-13-00L	Submit Three 200 NPL RI/FS (RFC/CMS) Work Plans	12/31/01	12/31/01 (F)*	Yellow
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	12/31/01 (F)	
M-24-51	Install Three Additional Wells at SST WMA B-BX-BY	12/31/01	8/31/01 (F)	
M-24-52	Install Three Additional Wells at SST WMA U	12/31/01	9/28/01 (F)	Green
M-24-53	Install Two Additional Wells at SST WMA TX-TY	12/31/01	9/28/01 (F)	
M-24-54	Install One Additional Well at SST WMA T	12/31/01	10/31/01 (F)	
M-24-55	Install Two Additional Wells at SST WMA S-SX	12/31/01	10/31/01 (F)	
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required	12/31/01	10/31/01 (F)	

*M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue has been discussed with the regulators at the last three *Tri-Party Agreement* Quarterly Reviews. A *Tri-Party Agreement* change request is being prepared to modify M-13-00L and will be forwarded to the regulators by August 31. Regulators have indicated they will address individual milestones on a case-by-case basis.

- **DNFSB Commitment:**

None identified at this time.

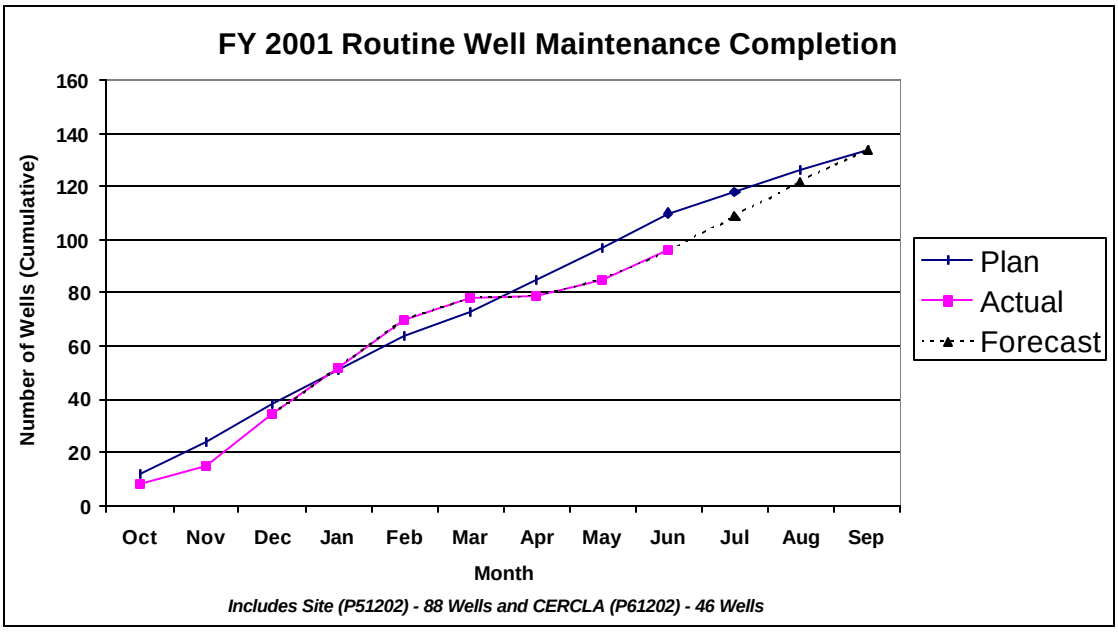
PERFORMANCE OBJECTIVES: GW/VZ

PI	Task	Status
GW – ISRM Barrier	• Drill 24 wells and inject sodium dithionite by 9/30/01 CV <5.0%; SV <7.5% for BHI portion of ER-08	Well drilling schedule has been recovered. Continuing to evaluate barrier performance.
GW – 618-11 Tritium Plume	• Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01 **(Stretch)** CV <5.0%; SV <7.5% for BHI portion of ER-08	Four wells have been identified with a fifth in question. BHI is evaluating if all deferred work can be evaluated in FY01, due to late start when not under BHI control. (*Detail Section 6C)

Green

PERFORMANCE MEASURES/METRICS: GW/VZ

Green



Includes Site (P51202) - 88 Wells and CERCLA (P61202) - 46 Wells

Cumulative	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Plan	12	24	38	51	64	73	85	97	110	118	126	134
Actual	8	15	34	52	70	78	79	85	96			
Forecast										109	122	134

Notes: Plan: Well Maintenance is planned on a quarterly basis and spread evenly by month for purposes of this graph.
Forecast: When wells are "released" to the subcontractor for maintenance, he is given 90 days for completion. That is also spread evenly by month, for that 90-day period, for this graph.

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY01 GW/VZ "Stretch" Goals	Approved BCPs (K)
Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01 (BCP 21090 approved 1/01)	$595.4K
S/Total GW – Vadose Zone Stretch Goals:	**$595.4K**

Green

FY01 GW/VZ "Superstretch" Goals	Approved BCPs (K)
***Complete Remediation of 60 Square Miles of Hanford Site: (1) River Corridor Well Decommissioning (90 wells)**	$1581.3K
S/Total GW – Vadose Zone Superstretch Goals:	**$1581.3K**

Green

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): GW/VZ

- **Schedule:**

GW/VZ Integration Project	BCWS	BCWP	Variance
	$K	$K	$K
ER02 200 Area Remedial Actions	2,605	1,348	(1,257)
ER08 Groundwater Management	21,766	20,410	(1,356)
VZ01 Groundwater/Vadose Zone	8,769	7,673	(1,096)
TOTAL Groundwater	**33,140**	**29,431**	**(3,709)**

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)
Schedule Variance = **($1257K); (48.3%)** [Last Month: ($1004K); (47.5%)]

Cause: Delay in TW-2 start of drive casing installation and borehole drilling; difficulties in coordinating the many cross-project field activities slowing progress.

Resolution: Subcontract has been awarded and drilling activities began June 22; schedule supports completion of drilling activities by the end of September. Field closeout and demobilization will carry over to FY02.

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

PBS-ER08 – Groundwater Management

Schedule Variance = **($1356K); (6.2%)** [Last Month: ($1389K); (7.3%)]

Cause: RCRA well drilling delayed due to radiation contaminated soil discovery, waste shipments being placed on hold to pursue regulator recommended approach, and relocation of three wells.

Resolution: Aggressive schedule in place; some schedule recovery identified. Three drill rigs will be used rather than two; waste disposal will carry over to FY02.

Cause: Routine well maintenance delayed to support non-routine sampling. Well decommissioning delays caused by extended well documentation search and selection.

Resolution: Contractor is developing a recovery schedule for well maintenance. Documentation was updated to accurately account for Hanford wells. Well D&D contractor mobilized on May 2; second contract awarded June 15; scheduled for completion by the end of August.

Cause: Pacific Northwest National Laboratory (PNNL) groundwater modeling and monitoring on Hydrogeologic Framework and Uncertainty Analysis tasks are behind schedule due to resources deployed to higher priority work. Monitoring Network Design awaiting decisions on Low Level Burial Grounds RCRA boundary.

Resolution: Decisions on site boundaries outside of project influence; Hydrologeologic Framework tasks have been accelerated with completion expected in August. Ecology has transmitted a letter allowing proposals for alternate monitoring approaches; work will begin on these approaches for interim status sites.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **($1096K); (12.5%)** [Last Month: ($955K); (12.1%)]

Cause: Shakedown runs for historical matching took longer than anticipated, delaying the start of the model runs and preparation of the assessment report.

Resolution: Several software and data problems have been identified, and are being addressed. Delay will not impact completion of work scheduled this year.

Cause: The Soil Inventory S&T Task study did not start as scheduled due to key staff on medical leave.

Resolution: A plan has been developed to recover a portion of the schedule; partial carryover has been identified.

Cause: Experimental work on B-BX-BY tank farm samples delayed due to Office of River Protection (ORP) stand down.

Resolution: A plan has been developed to recover a portion of the schedule; partial carryover has been identified.

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

- **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		$K	$K	$K
ER02 200 Area Remedial Actions	4,194	1,348	1,450	(102)
ER08 Groundwater Management	30,738	20,410	20,085	325
VZ01 Groundwater/Vadose Zone	10,600	7,673	7,293	380
TOTAL Groundwater	**45,532**	**29,431**	**28,828**	**603**

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)
Cost Variance = **($102K); (7.6%)** [Last Month: ($118K); (10.6%)]

Cause: Overrun due to additional pre-job planning and field work preparatory activities at 200-TW-1 Operable Unit (OU), and the identification of additional potential sources of contamination at 200-PW-1 OU.

Resolution: Overrun has been trended and reflected in the EAC.

PBS-ER08 – Groundwater Management
Cost Variance = **$325K; 1.6%** [Last Month: $346K; 1.9%]

Cause: Sample collection and analysis underruns due to efficiencies in planning well trips and analyses, and other Hanford contractors' costs being less than planned. Underrun offset by an overrun in 100-HR-3 chemical treatment upgrades.

Resolution: Underrun has been trended. Overrun has been trended. Both have been reflected in the EAC.

PBS-VZ01 – Groundwater/Vadose Zone
Cost Variance = **$380K; 5.0%** [Last Month: $242K; 3.5%]

Cause: Phase I Features, Events, and Processes (FEP) review by Characterization of Systems (COS) required fewer resources than planned; offsetting overrun in System Assessment Capability (SAC) historical matching related to system enhancements. S&T is underrunning due to a credit from a FY 2000 accrual reversal and efficiencies.

Resolution: Underrun will be trended and reflected in the EAC. Work on individual technical element history matching is complete and no additional variances are anticipated. Runtime reductions have been implemented and the project continues to seek ways to streamline the overall history matching and initial assessment runs.

REGULATORY ISSUES: GW/VZ

***Tri-Party Agreement* M-13-00x and M-20-xx Milestones:** *Tri-Party Agreement* Milestone M-13-00L requires the submittal of three 200 National Priorities List (NPL) Remedial Investigation/Feasibility Study (RI/FS) work plans by December 31, 2001. One work plan is in process (200-PW-1). A change request addressing the other two work plans is being prepared and will be submitted to the Washington State Department of Ecology (Ecology). RL management, in consultation with the U.S. Environmental Protection Agency (EPA), Ecology, and the Hanford Advisory Board (HAB), developed an alternate approach for completing the assessment of the 200 Area non-tank farm operable units on the Hanford Site. The alternate approach calls for completion of the characterization of 12 representative analogous waste site operable units by 2008.

Yellow

Status: RL's long range plan is based on the alternate assessment approach for the 200 Area. This approach would require modification of several *Tri-Party Agreement* milestones including the M-13 and M-20 major milestones. *Tri-Party Agreement* change requests are being prepared and will be forwarded for regulatory review and approval. It is RL's intent to formally transmit the change requests to Ecology no later than August 31, 2001. Since these change requests affect *Tri-Party Agreement* major milestones, a public review will be required. The regulatory agencies have previously expressed interest in negotiating the 200 Area changes in conjunction with negotiation of the M-16-00F (Establish Date for Completion of All 100 Area Remedial Actions) and M-16-03A (Establish Date for Completion of 300 Area Remedial Actions).

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): GW/VZ

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): GW/VZ

None identified at this time.

INTEGRATION ACTIVITIES: GW/VZ

RCRA Well Installation: The drilling contract was awarded for the calendar year 2001 (CY01) RCRA well installations. Eleven wells are planned for installation by December 31, 2001. The first six wells will be installed in support of the Office of River Protection (ORP) project.

Yellow

Surveillance / Maintenance and Transition Projects (SM&T)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2001 (unless otherwise noted).

Surveillance/Maintenance & Transition Projects (SM&T):

ACCOMPLISHMENTS: SM&T

Surveillance and Maintenance: S&M activities that were performed in June to ensure inactive facility integrity and safety included the following:

- Completed the stabilization of the 216-A-42 Retention Basin.
- Completed Phase II herbicide spraying of all vegetated areas.
- Completed asbestos abatement in the 100 N Area.
- Commenced asbestos abatement at the 224-U facility in the 200 Area.
- Commenced roof repairs at 212-N and 212-R facilities.
- Completed exhaust fan #1 repair at Reduction Oxidation (REDOX) facility.
- Continued developing rough order of magnitude (ROM) cost estimate/schedule for hexone tank removal.
- Supported a public meeting held on June 26 that solicited public comment on the B Reactor Engineering Evaluation/Cost Analysis (EE/CA). The Hanford Advisory Board (HAB) provided consensus support for the preferred alternative of the EE/CA (hazard mitigation for public access for a ten-year period).

Canyon Disposition Initiative (CDI): The feasibility study is nearing completion in support of the CDI. The feasibility study will provide a detailed analysis of several alternatives to be considered for the final disposition of the defunct 221-U facility (U Plant) chemical processing canyon facility. This study is also expected to influence final disposition determination for the four additional canyon facilities on the Hanford Site.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: SM&T

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: SM&T

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): SM&T

- **DOE Secretarial:**

None identified at this time.

- **DOE EM Performance Agreement:**

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: SM&T

- ***Tri-Party Agreement* Milestones:**

None identified at this time.

- **DNFSB Commitment:**

None identified at this time.

PERFORMANCE OBJECTIVES: SM&T

None identified at this time.

PERFORMANCE MEASURES/METRICS: SM&T

None planned in FY01.

STRETCH AND SUPERSTRETCH GOALS: SM&T

None identified at this time.

PROJECT STATUS (COST/SCHEDULE): SM&T

- **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	$K	$K	$K
ER05 Surveillance & Maintenance	10,458	10,066	(392)
ER07 Long-Term Surveillance & Maintenance	25	41	16
TOTAL SM&T	**10,483**	**10,107**	**(376)**

Green

PBS-ER05 – Surveillance and Maintenance
Schedule Variance = **($392K); (3.7%)** [Last Month: ($708K); (7.4%)]

Cause: In the Detailed Work Plan (DWP), the assumption was that the asbestos abatement subcontract would be awarded and expended in November 2000. Combining 100 and 200 Area asbestos work subsequently resulted in a subcontract where work will commence in April 2001 and still finish this fiscal year, causing a temporary negative schedule variance.

Resolution: A subcontract has been placed to execute work scope activities. Work is planned from April through August 2001. Full schedule recovery is expected.

Cause: REDOX Plant canyon roof repair subcontract bid/evaluation took longer than planned. The contract was awarded in May.

Resolution: Work is anticipated to start in July and be completed by September.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $59K for FY01)
Schedule Variance = N/A

PROJECT STATUS (COST/SCHEDULE) continued: SM&T

- **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		$K	$K	$K
ER05 Surveillance & Maintenance	12,631	10,066	9,271	795
ER07 Long-Term Surveillance & Maintenance	25	41	9	32
TOTAL SM&T	**12,656**	**10,107**	**9,280**	**827**

Green

PBS-ER05 – Surveillance and Maintenance
Cost Variance = **$795K; 7.9%** [Last Month: $668K; 7.5%]

Cause: Underruns in 200 Area S&M work, herbicide application, subcontract costs and RARA interim stabilization; underruns are offset by hexone tank sampling cost overruns from additional engineering, additional job hazard analysis, and higher mobilization costs.

Resolution: Overall underrun has been trended and is reflected in the EAC. Sampling costs will continue to overrun and have also been trended and reflected in the EAC.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $59K for FY01)
Cost Variance = N/A

REGULATORY ISSUES: SM&T

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): SM&T

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T

None identified at this time.

INTEGRATION ACTIVITIES: SM&T

None identified at this time.